

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE
(REV. 12-2004)

ATTORNEY'S DOCKET NUMBER

345US (P31278-A USA)

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371U.S. APPLICATION NO. (If known, see 37 CFR 1.5)
Not Yet Assigned 10/582313INTERNATIONAL APPLICATION NO.
PCT/US2004/041434INTERNATIONAL FILING DATE
December 8, 2004PRIORITY DATE CLAIMED
December 8, 2003

TITLE OF INVENTION

DIFFERENTIAL ENERGY COMPOSITES AND METHOD OF MANUFACTURING SAME

APPLICANT(S) FOR DO/EO/US

CREE, James W.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). (unexecuted)
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 917369426 US
23. ☒ Other items or information:

See Sheet "A" attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (Inventor's use only) 10/502313 Not Yet Assigned		INTERNATIONAL APPLICATION NO. PCT/US2004/041434		ATTORNEY'S DOCKET NUMBER P31278-A USA	
24. The following fees are submitted:				Applicant use	Office use
<input checked="" type="checkbox"/> a) Basic national fee \$300.00				\$ \$300.00	
<input checked="" type="checkbox"/> b) Examination fee \$200.00				\$ \$200.00	
<input checked="" type="checkbox"/> c) Search fee \$500.00				\$ \$100.00	
TOTAL OF ABOVE CALCULATIONS = \$1000.00				\$ \$600.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE		
- 100 =	/50 =		x \$250.00	\$ \$0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ \$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	21 - 20 =	1	x \$50.00	\$ \$50.00	
Independent claims	3 - 3 =	0	x \$200.00	\$ \$0.00	
MULTIPLE DEPENDENT CLAIMS (if applicable) <input checked="" type="checkbox"/> + \$360.00				\$ \$720.00	
TOTAL OF ABOVE CALCULATIONS =				\$ \$1,500.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$ \$0.00	
SUBTOTAL =				\$ \$1,500.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ \$0.00	
TOTAL NATIONAL FEE =				\$ \$1,500.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +				\$ \$0.00	
TOTAL FEES ENCLOSED =				\$ \$1,500.00	
Amount to be refunded:				\$	
Amount to be charged:				\$	
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is _____.</p> <p>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>19-5425</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input checked="" type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Joseph A. Tessari TREDEGAR FILM PRODUCTS CORPORATION 1100 Boulders Parkway Richmond, Virginia 23225 USA 804.330.1047</p>					
				<p>SIGNATURE Stephen J. Driscoll</p> <p>NAME 37,564</p> <p>REGISTRATION NUMBER</p>	

10/582313
AP20 Rec'd PCT/PTO 08 JUN 2006

CERTIFICATE OF MAILING BY EXPRESS MAIL UNDER 37 CFR 1.10

EV917369426 US
Express Mail Label Number

June 8, 2006
Date of Deposit

I hereby certify that the attached Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371, including a duplicate copy thereof, a Preliminary Amendment, a Declaration of Inventorship for purposes of the designation of the United States of America (unexecuted), a copy of The International Search Report (PCT/ISA/210), a copy of Notification of Transmittal of the International Search Report and The Written Opinion of the International Searching Authority (PCT/ISA/220), a copy of The Written Opinion of the International Searching Authority (PCT/ISA/237), an Application Data Sheet, and Credit Card Form PTO-2038 for \$1,500.00, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

By: Bill Gatta
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Patent

10/582313
Express Mail Label No. EV917369426US
Attorney Docket No. 345 US (31278-A USA)
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SHEET "A"

The following list represents the "Other items or information:" included as enclosures, under No. 20, to the "Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US) Concerning A Submission Under 35 U.S.C. 371:

- (1) Certificate of Express Mailing – Express Mail Label No. EV917369426US;
- (2) Application Data Sheet;
- (3) Notification of Transmittal of The International Search Report and The Written Opinion of the International Searching Authority, or the Declaration (Form PCT/ISA/220);
- (4) Written Opinion of the International Searching Authority (Form PCT/ISA/237);
- (5) Form PTO-2038;
- (6) Return Postcard; and
- (7) A duplicate copy of this transmittal correspondence